

AMENDMENTS**Listing of Claims:**

The following listing of claims replaces all prior versions.

Please amend the pending claims as indicated below:

- 1 1. (Currently amended) A reflective imaging encoder comprising:
2 a substrate;
3 an encapsulated emitter mounted on the substrate, the encapsulated emitter
4 comprising a light emitting element and an encapsulant, wherein the encapsulant has
5 an encapsulant optical axis and the light emitting element is mounted offset from the
6 encapsulant optical axis, the encapsulated emitter having an emitter optical axis and
7 emitting light that is offset from the emitter optical axis;
8 a diffuse reflective coder reflecting light from the encapsulated emitter;
9 an imaging lens forming an inverted image of the reflected light from the
10 coder;
11 an image detector mounted on the substrate receiving the inverted image from
12 the imaging lens; and
13 a baffle between the encapsulated emitter and the image detector.
- 1 2. (Previously presented) The reflective imaging encoder of Claim 1 where the
2 image detector is a photodiode array.
- 1 3. (Previously presented) The reflective imaging encoder of Claim 1 where the
2 image detector is a CMOS imaging sensor.
- 1 4. (Previously presented) The reflective imaging encoder of Claim 1 where the
2 encapsulated emitter is a light emitting diode.
- 1 5. (Canceled)
- 1 6. (Canceled)
- 1 7. (Previously presented) The reflective imaging encoder of Claim 4 where the

2 encapsulated emitter is a packaged light emitting diode.

1 8. (Canceled)

1 9. (Canceled)

1 10. (Canceled)

1 11. (Currently amended) The reflective imaging encoder of Claim 4 where the
2 light emitting diode includes a reflector cup.

1 12. (Canceled)

1 13. (Canceled)

1 14. (Canceled)

1 15. (Previously presented) The reflective imaging encoder of Claim 4 where the
2 encapsulated emitter is a plurality of light emitting diodes.

1 16. (Original) The reflective imaging encoder of Claim 1 where the imaging lens
2 is separate from the detector.

1 17. (Currently amended) The reflective imaging encoder of Claim 1 where the
2 imaging lens is incorporated into the encapsulation of the image detector.

1 18. (Currently amended) The reflective imaging encoder of Claim 1 further
2 comprising an aperture between the coder detector and the imaging lens.

1 19. (Original) The reflective imaging encoder of Claim 1 further including an
2 aperture between the imaging lens and the detector.

1 20. (Currently amended) The reflective imaging encoder of Claim 1 further

2 including a first aperture between the coder and the imaging lens and a second
3 aperture between the imaging lens and the image detector.

1 21.-25. (Canceled)

1 26. (Original) The reflective imaging encoder of Claim 1 where the detector is
2 mounted on the optical axis of the imaging lens.

1 27. (Canceled)